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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

COUNTRY USSR

SUBJECT Reported Production of 'SON' and 'SOD' Radar in installations
at Zavod Imeni Kozitsevogo, Leningrad

PLACE ACQUIRED
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1. "The Kozitski Plant (Zavod Imeni Kozitskogo) in Leningrad has a shop for complex radio installations (slozhnye radioustroystvovki). This shop manufactures radar (radiolokatsionnye) stations of the types 'SON' and 'SOD' for the Soviet Air Force and Navy. These stations are used mainly in firing from anti-aircraft guns of medium and heavy caliber.
2. "The stations are mounted on the chassis of military (V for voienny) automobiles of the models ZIS-5 V and ZiS-150 V.
3. "The radar stations of the type 'SON' work within a range of 100 km. The range of the 'SOD' type goes up to 30 km.
4. Both radar stations give three coordinates of the target:
 - (a) The inclined distance to the target (on the indicator of the 'electronic-radial' (elektronno-luchevoy) tube;
 - (b) The bearing (azimuth) of the target, by an electronic process;
 - (c) The angle of the location of the target and the height of the target, by an electronic process.
5. "The rotating projector aerial of the 'SON' station have a diameter of 1.5-2.0 meters. The curved surface of the projector is a metallic net. In the center (focus) of the projector there is 'radiating aerial-dipol' for centimeter waves. The waves manifest themselves as the ray of the projector.

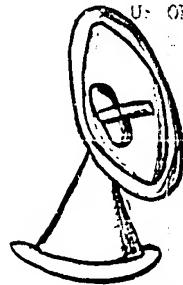
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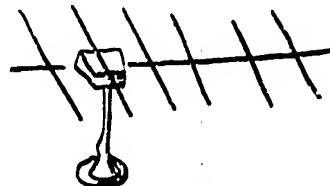
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6. "The aerial is mounted on the roof of a truck van. The trucks used for this purpose are the ZIS-150 V and ZIL-5 V."
7. "The radar stations 'LSD' (stantsii dalsnego obnaruzheniya - 'stations of distant detection') have a multivibrational directing aerial (mnogovibratsionnaya direktorneia antenna).



This aerial rotates on a horizontal plane and works on decimeter waves. It is mounted on the roof of the van of ZIS-151 or ZIL-50 trucks."

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